AMATEUR RADIO LOGGING PACKAGE

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Introduction

The Snow Micro Systems Amateur Radio logging package allows Radio Amateurs a new dimension in log and other record keeping. Logs and records are kept on floppy discs and selected summary information may be obtained at will. The package consists of a software operating system incorporating a number of commands or programs that are loaded by a system executive into memory from the disc and then executed.

The log data files are sequential data files. All LOG commands access the files sequentially starting with the first entry. It is thus advisable to enter data into small files and then merge them later for analysis purposes, Thus should the entry process fill the log file, the auto recovery mode will not take to long to execute. The merge and edit features do not destroy the origional log file, and so the old data is available in case of entry errors.

The WAS data files are random access files. New data is written over the old data. Each file is dated at the end of a session so that the date of last update is available when comparing the printouts of a file at different times. Note that different WAS data files can be set up to keep records by mode, band, OSCAR or what you will, once (or even before) the basic WAS is achieved.

It is advisable to keep backup copies of all command and data files in case of accidental errors.

Run Time Information

To run the package, load BASIC in the conventional manner, then enter LOAD LOG just as you would for loading any other program written in BASIC. After you type RUN, the sign on message will be displayed and the computer will prompt the console thus > .

From then on, all commands are executed by entering the command name only, followed by a carriage return. The computer will request any further information that it needs.

In the following example, the user resposes are underscored.

```
NORTH STAR DOS 5.0
+GO BASIC,2
READY
LOAD LOG
READY
RUN


G3ZCZ AMATEUR RADIO PACKAGE VERSION 1.0

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>
```

```
>LOGPRINT

What is the name of the log file ? LOG 003
Which drive is it on ? 2
Scan/print whole log, by prefix or date (W, P or D ) ?W

Which output device  ? Ø

STATION LOG   WA3LOS              PAGE 1             FILE LOG003
QSO #    DATE      TIME  BAND     STATION     S    R   MODE  PWR   QSL  COMMENTS
     1   1 Jan 74  1200   20.    W4ART       59   59   SSB   500   --
     2   1 Jan 74  1230   15.    G3ZCZ       59   59   SSB   500   --
     3   1 Jan 74  1300   15.    4X4IN       59   58   SSB   500   --   AVI
     4   1 Jan 74  1315   15.    G3IOR       59   59   SSB   500   --
     5  12 Jan 74  1400   15.    4X4IS       59   59   SSB   450   --
     6  14 Oct 74  1200   15.    VK1RI       59   59   SSB  1000   --
     7  14 Oct 74  1205   15.    4U1A        59   59   SSB  1000   --
     8  14 Oct 74  1206   15.    G2BVN       59   59   SSB  1000   --
     9  15 Nov 74  1200   15.    ZB2BL       59   59   SSB   450   --
    10  15 Nov 74  1234   15.    ZL2AOX      58   59   SSB   450   --
    11  15 Nov 74  1256   15.    DJ4ZC       59   59   SSB   450   --
    12  12 Dec 76  1200   20.    WA3LOS      59   59   SSB   100   --
    13  12 Dec 76  1356   15.    4X4RR      569  559   CW    450   --
    14  12 Dec 76  1400   15.    GJ3ERD     569  559   CW    450   --
    15  12 Dec 76  1423   15.    ZB2BL      559  559   CW    450   --
    16  13 Dec 76  1300   20.    4U1ITU      59   59   SSB   500   --
    17  13 Dec 76  1320   20.    5T5IJ       59   59   SSB   500   --
    18  14 Dec 76  1500   40.    W4ART       59   59   SSB   400   --
    19  14 Dec 76  1520   40.    WA3VXE      59   59   SSB   400   --
    20  15 Jan 77  1234   40.    W3ORG/VE3   59   59   SSB     4   --
    21  17 May 77  1000   10.    W4ART/4X    59   59   SSB   500   --
    22  17 May 77  1055   10.    WA3VXE/4    59   59   SSB   500   --
    23  20 Jun 77  1200   20.    4Z4JEK      59   59   SSB  1000   --
    24  20 Jun 77  1400   20.    G8BTB/4X    59   58   SSB  1000   --
    25  12 Apr 78  0001   40.    W4ART       59   59   CW    200   --
    26  12 Apr 78  0003   40.    WA4WTG      59   59   CW    200   --
    27  15 May 78  2356   40.    WA3LOS     559  559   RTTY  200   --
Do you want log page ejected ? N
Again ? Y
Scan/print whole log, by prefix or date (W, P or D ) ?P
Which prefix ? 4X

Which output device  ? Ø

STATION LOG   WA3LOS              PAGE 1             FILE LOG003
QSO #    DATE      TIME  BAND     STATION     S    R   MODE  PWR   QSL  COMMENTS
     3   1 Jan 74  1300   15.    4X4IN       59   58   SSB   500   --   AVI
     5  12 Jan 74  1400   15.    4X4IS       59   59   SSB   450   --
    13  12 Dec 76  1356   15.    4X4RR      569  559   CW    450   --
    21  17 May 77  1000   10.    W4ART/4X    59   59   SSB   500   --
    24  20 Jun 77  1400   20.    G8BTB/4X    59   58   SSB  1000   --
Do you want log page ejected ? N
Again ? N

  >
```

```
>FILES

Which drive ? 2

Data files on drive 2 are :-

LOG001        S    3
LOG003        S    7
WASDATA       S    14
WASOSCAR      S    14


>ELP
cannot find ELP

>HELP


Which drive ? 2

COMMANDS ON DRIVE  2 ARE :-

FILES
HELP
LOG
LOGDEL
LOGEDIT
LOGENTER
LOGMERGE
LOGPRINT
LOGRENAM
NEWLOG
QSLPRINT
STNINFO
WASENTER
WASGEN
WASPRINT


>LISF
cannot find LISF

>
```

Sample files have been included on the supplied disc.
Exercise them before creating your own data files in order to
become familiar with the characteristics of the system.

NOTE that error messages will occur if a WAS command tries
to access a LOG file and vice versa. These errors will usually
be indicated as "TYPE 3 ERROR AT LINE n".

We hope that this package adds to your enjoyment of your
hobby. If you have any comments, please write to us.

The system commands are as follows;-

HELP
     lists all commands available on the selected disc. (NOTE that commands are Nortnstar convention Type 2 files.).

FILES
     lists the names, density and number of blocks of all data files on the selected disc.(Note that data files are Northstar convention Type 3 files.).

LOGDEL
     deletes a log data file from the system. This deletion is permanent, so take care when using this command.

LOGEDIT
     allows the contents of a log data file to be edited. A new log data file is created containing the edited data. The new file must be given a different name   to an   existing one. The existing one is not affected by the editing process. This command is used to update QSL information, to correct erronious entries or to add comments at a later date. File Errors will result if the new file is given the same name as the existing one, or if there is not enough space on the disc for the new data file.

LOGENTER
     is used to add new entries to a log data file. Should the space on the disc allocated to the data file be filled during the entry process, the computer will announce that fact and automatically determine and indicate the last entry actually written out to the disc.

LOGMERGE
     merges two existing log data files. The names of the two files are requested by the computer. The name of the new file that will hold the merged data is then requested. The new data file is then created, and the contents of the two files transferred into the combined one in sequential order. A file error will occur if the disc does not have enogh space to allocate to the new file, or if an attempt is made to give the new file a name that is   lready in existance on the disc.

LOGPRINT
     searches and prints the contents of a log data file as follows; the entries may be printed out on any of the system output devices (0 is usually assigned to the console, 1 is usually assigned to the printer), in three different formats.
                         a) Day based: all entries for a single day, or between two
                                  different days (inclusive) will be printed.
                         b) Whole log: the contents of the data file will be printed.
                         c) Prefix scan: all entries with a particular prefix will
                                  be printed. This feature is used to provide
                                  summary information as follows,
                                  If a whole call sign is entered, all contacts
                                  with that station will be displayed. If part
                                  of a call is entered, all contacts with station
                                  having callsigns containing the entered prefix
                                  will be displayed. This feature can thus be
                                  used to display all contacts with particular
                                  call areas or countries,or to find a call

that is only half remembered. A call can also be
found for someone operating at an other station if
the log entry included the home call enterd between
< and > signs, for example <G3ZCZ> or <G8BTB> .
Valid prefixes are G, G3, G3Z, G3ZC, or G3ZCZ.

LOGRENAM

renames a log file and its pointer file. This command should
be used to change the name of a log file rather than the RENAME utility
file that you may have obtained.

LOGRESTR

restores the log pointer file associated with a log data file.
This command is used in the event that an anomalie (power failure or
accidental exit from BASIC) occurred during an entry process. The
pointer file is updated to include the last entry written to the disc.
There may thus be a small loss of data (the last few entries).

NEWLOG

creates a new log data file and its pointer file. the computer
requests the name and disc for the file and reserves space on the
disc for the file. Space is reserved for any size file, within the
limits of the operating system. Error messages will occur if the
new log file is given the same name as an existing file or command
on the disc, or if there is insufficient space on the disc to create
a file of the desired size.

QSLPRINT

prints out QSL cards using data extracted from the log file.
The printout is in such form that it can be glued to the back of a
regular QSL card.   The user is requested to input the number of cards
to be printed at one time. The computer then requests the name of
the log data file to be scanned and the calls to whom the cards are
going. The QSL card will then be made out corresponding to the
first non qsl'd entry in the log file for each call sign.   The list
of calls may be entered in any particular order.
As an added option, the computer can edit the log data file to
add the updated QSL information.
An error message will be printed at the console if the number
of cards to be printed in one session requires more memory storage
than is available in the machine. Errors will also be displayed if
non existant log files are chosen or in the edit option, if there
is insufficient space on the disc for the new (updated) file. See
LOGEDIT for more details.   .

STNINFO

sets up the STNDATA file with the custom station data.   This
data includes your call sign, your station latitude and logitude, as
well as a reminder of the current log data file.
These data are used by the various commands in the package,
and in other programs soon to be released.
THIS COMMAND SHOULD BE THE FIRST ONE RUN, WHEN INITIALLY BRINGING

THE SYSTEM UP.

```
OSCARWAS WAS Status as of 31 DEC 1977

STATE             STATUS CALL           DATE       MODE
-------------------------------------------------------------
ALABAMA
ALASKA
ARIZONA
ARKANSAS
CALIFORNIA        QSL'D  W6CG         24 May 1976   CW
COLORADO
CONNECTICUT       QSL'D  K1HTV        16 Jun 1976   SSB
DELAWARE
FLORIDA           QSL'D  K4KQ         31 May 1976   CW
GEORGIA
HAWAI
IDAHO
ILLINOIS          QSL'D  W9QQG        28 Dec 1975   CW
INDIANA
IOWA              QSL'D  W0II         12 Jan 1976   CW
KANSAS            SENT   W0CY         23 Oct 1975   CW
KENTUCKY          QSL'D  W4MDP        16 Jun 1976   SSB
LOUISIANA
MAINE
MARYLAND          QSL'D  WA3LND       29 Sep 1974   CW
MASSACHUSETTS     QSL'D  W1CRL        13 Mar 1977   SSB
MICHIGAN          QSL'D  WB8BGY       29 Sep 1974   CW
MINNESOTA         QSL'D  W0PHD        17 Oct 1975   SSB
MISSISSIPPI
MISSOURI          QSL'D  W0SL         17 Mar 1977   SSB
MONTANA
NEBRASKA
NEVADA
NEW HAMPSHIRE     QSL'D  W1JSM        29 Dec 1975   CW
NEW JERSEY        QSL'D  K2QBW         2 Jan 1976   CW
NEW MEXICO
NEW YORK          QSL'D  W2GN          7 Oct 1975   CW
N. CAROLINA
N. DAKOTA         QSL'D  W0EOZ         1 Feb 1976   CW
OHIO              WORKED K8NU         25 Mar 1977   SSB
OKLAHOMA          QSL'D  WA5ETV        4 Jan 1976   SSB
OREGON
PENNSYLVANIA      QSL'D  AC3BWU        4 Jan 1976   SSB
RHODE ISLAND      SENT   WA1RFT       25 Dec 1975   CW
S. CAROLINA
S. DAKOTA         QSL'D  W0IT          1 Nov 1976   CW
TENNESSEE
TEXAS             QSL'D  W5VY         17 Mar 1977   SSB
UTAH
VERMONT
VIRGINIA          QSL'D  W4ART         6 Oct 1975   CW
WASHINGTON
WEST VIRGINIA
WISCONSIN         QSL'D  W9OII        17 Oct 1975   CW
WYOMING
   21 QSL'd, 1 worked and  2 cards in the mail


        SAMPLE WAS DATA FILE LISTING (Call area = 10)
```

Double Density Users

      If you compact the disc to Double Density format you
must manually change the track 0 entries after running the Compact
program to double density using the Northstar DOS as follows,
or the package will not work.

     delete the following files

HAM.001	is the name
- -	is the date code
< * >	the directory

     then create the following files in this order

```
CR    HAM.001   0 0
CR    - -       0 0
CR    <*>       8 0
TY    ﹨*>       3
```

Notes

(1)   If you insert the disc in any drive other than drive 1,
     don't forget to enter the drive identifier after the entry
     name.

(2)   It is advisable to make a copy of the disc before you per-
     form the conversion process.